



United States
Department of
Agriculture

Soil
Conservation
Service

Salt Lake City
Utah

Utah Water Supply Outlook

March 1, 1986



Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3657
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 15th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue SW, Calgary, Alberta, T3C 1A8.

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Utah Water Supply Outlook

and

Federal - State - Private Cooperative Snow Surveys

Issued by

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Salt Lake City, Utah

In cooperation with

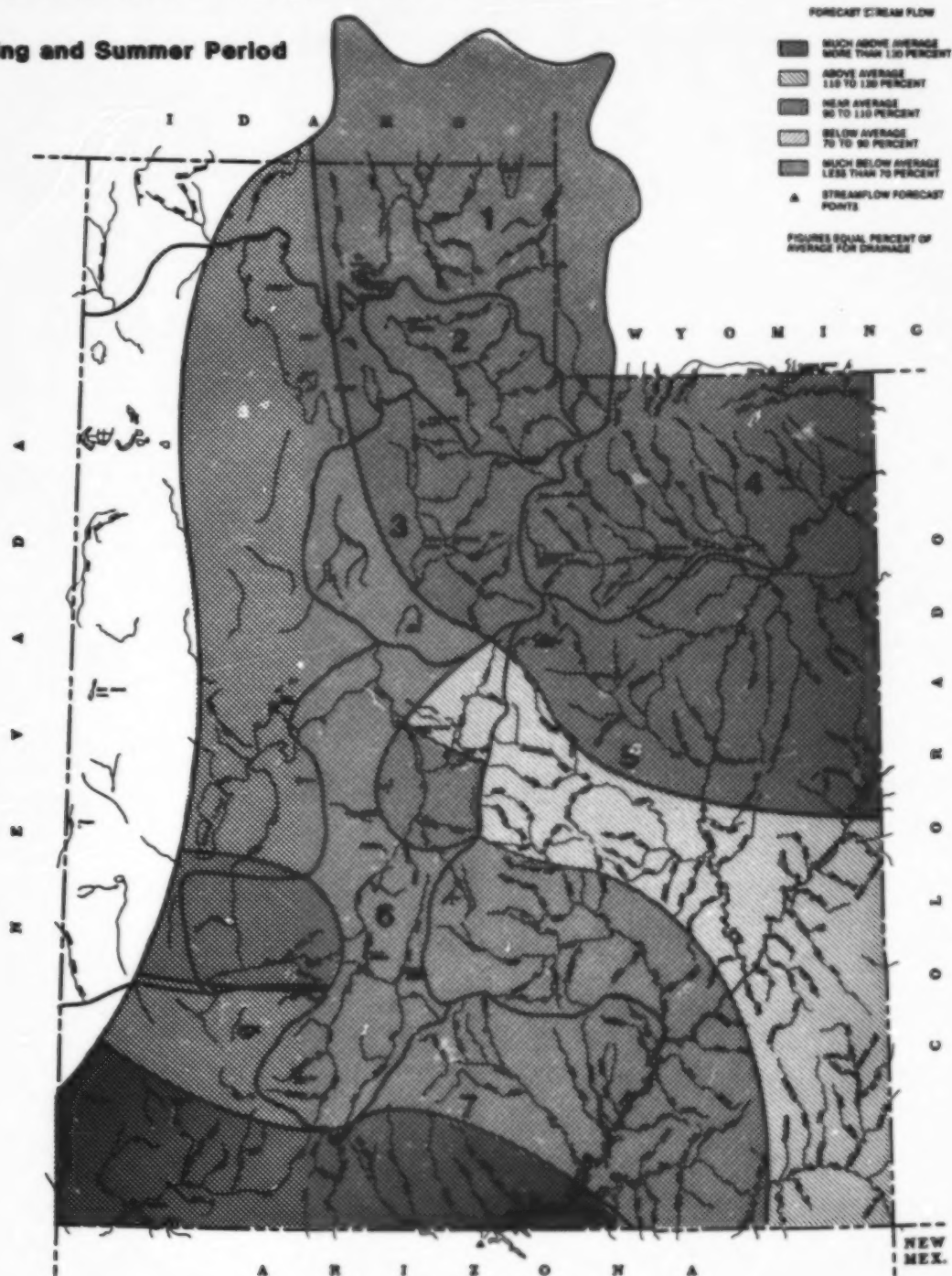
Utah State Department of Natural Resources	
Robert L. Morgan	D. Larry Anderson
State Engineer	Director
Division of Water Rights	Division of Water Resources

Prepared by

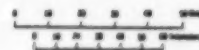
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Streamflow Prospects for Utah

Spring and Summer Period



- 1 BEAR RIVER BASIN
- 2 WEBER & OGDEN WATERSHEDS IN UTAH
- 3 UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
- 4 UNITAH BASIN & DAGGET SCD'S
- 5 CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO.
- 6 SEVIER & BEAVER RIVER BASINS
- 7 E. GARFIELD, KANE, WASHINGTON, & IRON CO.



GENERAL OUTLOOK

SUMMARY:

Record precipitation in areas of northern Utah produced record snowpack on some snow courses and flooding on the Bear and Weber Rivers. Preliminary estimates indicated the Weber at Gateway had set a new record peak flow. The situation in southern Utah is just opposite. Shallow snowpack, warm temperatures, early runoff and half-full reservoirs could lead to rationing.

SNOWPACK:

Snowpack across the state varies from record amounts in the north to no snow on some courses in the south. Rain on snow and warm temperatures have been responsible for some snow losses at lower elevations which resulted in flooding on the Bear and Weber and their tributaries. Areas of below to much below average snowpack exist in the Oquirrh Mountains, Blue Mountain, Upper Sevier and extreme southwestern corner of the state. Snowpack now ranges from 73% in the southwest to 150% of the March 1 average in the Uintas.

PRECIPITATION:

Precipitation at mountain stations for February was received in record amounts at some locations. Rainfall in excess of 15 inches was measured at several stations with Ben Lomond Peak, northeast of Ogden, receiving 25 inches. Mountain precipitation was above average across the state during February although southern Utah received much less than the north. Accumulations for the water year are also above average across the state ranging from 117% in the southwest to 161% on the Weber-Ogden drainage.

RESERVOIRS:

Useable water stored in 28 of the key irrigation reservoirs in the state as of the end of February was 138% of average and 79% of useable capacity. Normally these reservoirs are only holding 58% of their cumulative capacity. The only area in which reservoirs are not expected to fill is the Pine Valley-Bull Valley Mountain area of southwestern Utah where the snowmelt runoff peak is believed to have already occurred and releases for irrigation have already begun.

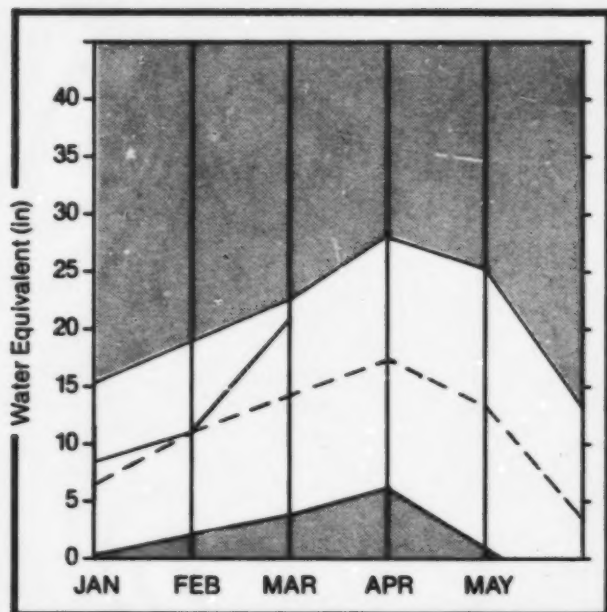
STREAMFLOW:

Streamflow forecasts have generally increased by 20 to 40% from the levels forecast a month ago due to heavy precipitation. The exceptions are in western and southern Utah where decreases of as much as 26% are projected. Warm weather during the last week of February and first week of March has melted a substantial amount of low and mid-elevation snow producing high early flows of water that would normally be stored in the snowpack for approximately another month.

Forecasts prepared for this bulletin represent cooperative efforts of the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to water users and managers.

Bear River Basin

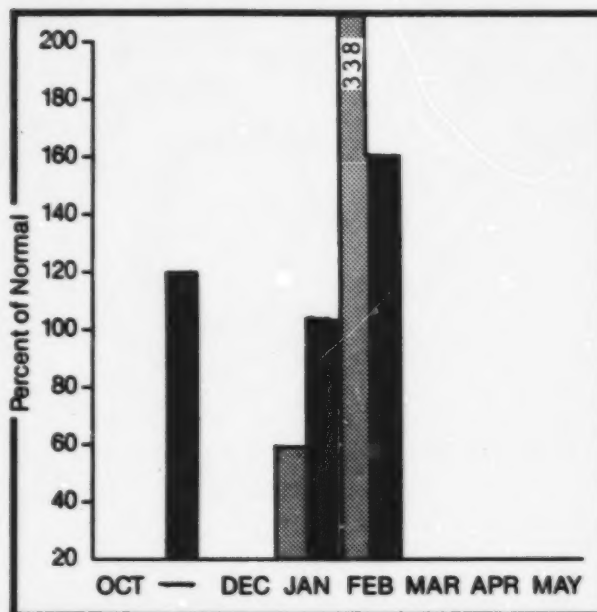
Mountain snowpack* (inches)



*Based on selected stations

Maximum Average Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Extremely heavy precipitation during February resulted in a dramatic increase in snowpack. Snowpack on the Bear River drainage is 147% of the March 1 average. Logan River snowpack is also 147% of the norm. Streamflow forecasts now range from 128 to 201% of average. Precipitation at mountain stations averaged 338% of average across the basin during February. Water year total accumulation is 161% of average. Reservoir storage as of the end of February was 112% of average.

For more information contact your local Soil Conservation Service office:
 Tremonton Field Office 801-257-5403
 Logan Field Office 801-753-5616

BEAR RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BEAR RIVER near UT-WY Stateline	APR-JUL	110.0	109.0	135	157	117	2042			
BEAR near Woodruff	APR-JUL	199.0	181.0	130	169	107				
WOODRUFF CREEK near Woodruff	APR-JUL	17.0	23.0	132	156	110	342			
BIG CREEK near Randolph	APR-JUL	5.0	9.0	179	226	132	89			
BEAR near Randolph	APR-JUL	110.0	222.0	201	258	145				
THOMAS FORK near Stateline	APR-SEP	30.0	50.4	144	169	120				
SMITHS FORK near Border	APR-SEP	117.0	170.0	142	167	118				
BEAR RIVER near Harer	APR-SEP	210.0	419.0	135	163	111				
LOGAN RIVER near Logan	APR-JUL	114.0	142.0	129	159	122	1421			
BLACKSMITH FORK near Hyrum	APR-JUL	51.0	49.0	135	169	104				
LITTLE BEAR RIVER near Paradise	APR-JUN	30.0	31.0	134	171	97	741			
CUB RIVER near Preston	APR-JUL	44.0	40.0	120	167	90				

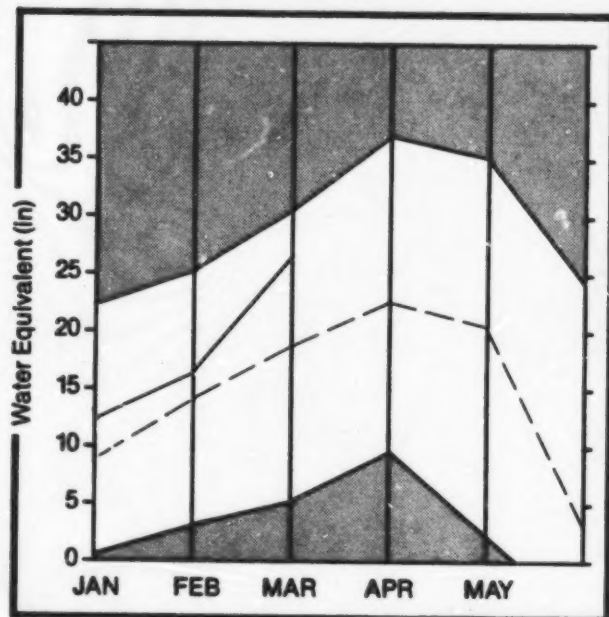
RESERVOIR STORAGE (1000AF)		WATERSHED SNOWPACK ANALYSIS	
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR LAST YEAR AVE.	WATERSHED NO. COURSES AVE.D THIS YEAR AS % OF LAST YR. AVERAGE
BEAR LAKE	1421.0	1009.0 1001.2 979.0	BEAR RIVER, UPPER IN UTAH 5 140 143
HYRUM	15.3	10.7 10.0 10.0	BEAR RIVER, LOWER IN UTAH 10 141 140
PORCUPINE	11.3	9.0 6.0 5.7	BEAR RIVER DRAINAGE IN UT 15 103 100
WOODRUFF HARRIS	55.8	34.2 37.0	BEAR RIVER, UPPER (above 11 105 100
WOODRUFF CREEK		NO REPORT	BEAR RIVER, LOWER (below 10 104 100
			BEAR RIVER DRAINAGE 20 107 107
			LOGAN RIVER 5 140 147
			RAFT RIVER 4 101 100
			BEAR RIVER BASIN 36 100 100

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

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Weber & Ogden Watersheds

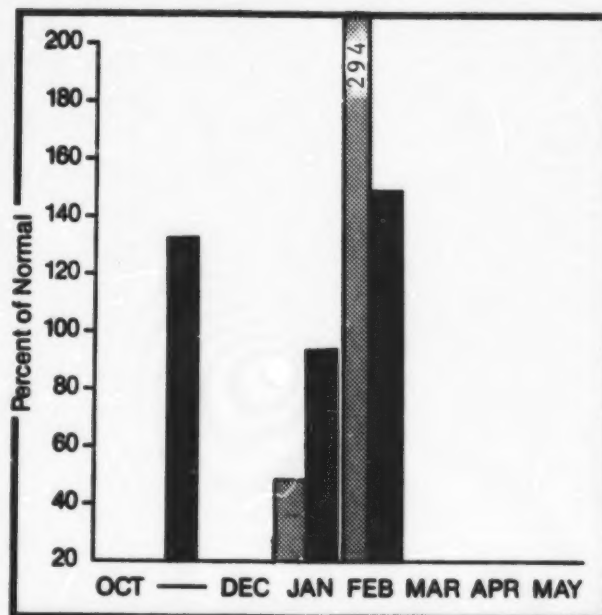
Mountain snowpack* (Inches)



*Based on selected stations

Maximum Average
Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Several snow courses in the Weber River watershed have record March 1 snowpack as a result of record February precipitation. Snowpack on the Ogden River watershed is 143% of average and the Weber drainage is 144%. Streamflow forecasts now range from 128 to 194% of average for the upcoming April-June forecast period. Precipitation at mountain stations was nearly three times normal for February with amounts ranging to 25 inches recorded. Reservoir storage is 81% of capacity and 133% of average.

For more information contact your local Soil Conservation Service office:
801-544-9144

WEBER & OGDEN WATERSHEDS in Utah

STREAMFLOW FORECASTS

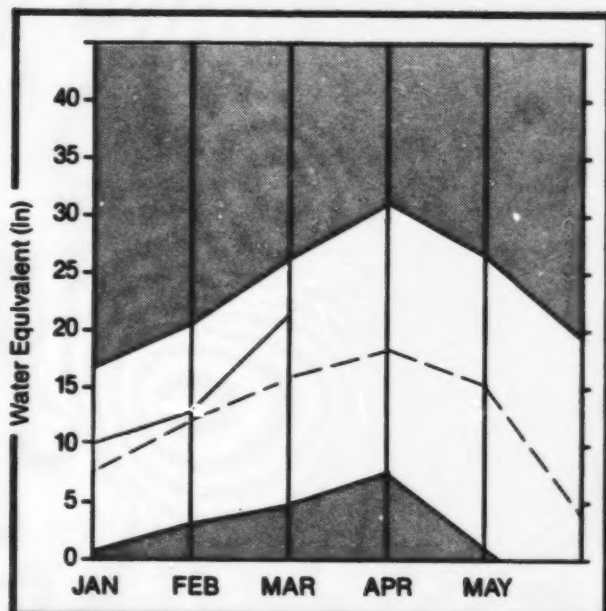
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	PEAS. MAX (% AVE.)	PEAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WEBER RIVER near Oakley	APR-JUN	152.0	134.0	150	176	129	2464			
ROCKPORT RESERVOIR inflow	APR-JUN	111.0	100.0	141	197	132				
CHALK CREEK near Coalville	APR-JUN	34.0	75.0	194	225	164	1000			
WEBER RIVER near Coalville	APR-JUN	117.0	176.0	164	194	139				
LOST CREEK near Crovden	APR-JUN	15.5	24.5	149	212	128				
EAST CANYON CREEK near Morgan	APR-JUN	25.0	22.0	128	164	100				
HARDSCRABBLE CREEK near Porterville	APR-JUN	18.4	20.6	138	185	87				
SOUTH FORK OGDEN RIVER near Huntsvil	APR-JUN	57.0	81.5	141	167	116				
PINEVIEW RESERVOIR inflow	APR-JUN	113.0	170.0	147	168	123				
ECHO RESERVOIR inflow	APR-JUN	145.0	230.5	177	206	151				
WEBER RIVER at Gateway	APR-JUN	208.0	311.0	170	193	147				
FARMINGTON CREEK near Farmington	APR-JUL	9.2	11.2	136	183	85				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE
CAUSEY	6.9	3.5	1.8	2.3	OGDEN RIVER	4	100
EAST CANYON	48.1	43.3	25.6	39.6	WEBER RIVER	13	100
ECHO	73.9	48.0	48.1	49.0	WEBER & OGDEN WATERSHEDS	17	100
LOST CREEK	20.0	12.3	13.2	15.4			
PINEVIEW	110.1	98.7	31.4	46.3			
ROCKPORT	60.9	39.4	31.7	34.3			
WILLARD BAY	165.5	134.0	147.8	145.0			

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Utah Lake, Jordan River & Tooele Valley

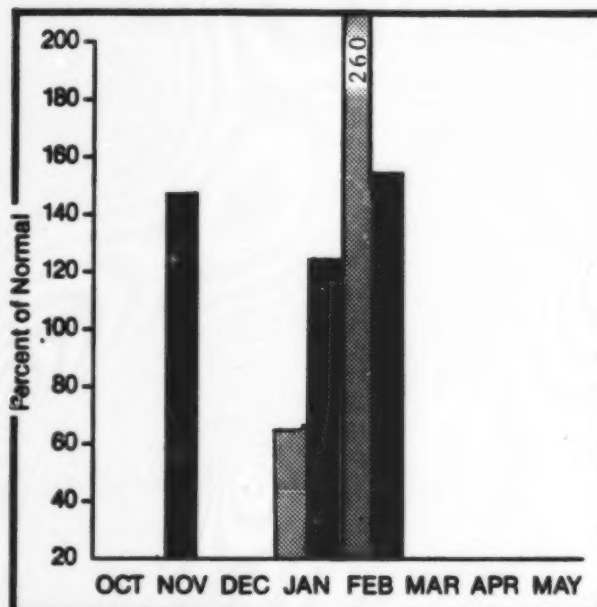
Mountain snowpack* (inches)



*Based on selected stations

Maximum Average Minimum Current

Precipitation* (percent of normal)

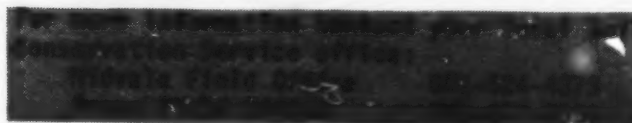


*Based on selected stations

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack on the Jordan River watershed has increased substantially from that of a month ago as a result of heavy precipitation and now stands at 122% of average. Tooele Valley watersheds, however, have decreased by 26% and are now only 89% of average due to warm temperatures and below average rainfall. Streamflow forecasts now range from 90 to 189%. Mountain precipitation was 260% of average on the Provo River-Utah Lake watershed in February and 157% for the water year. Reservoirs are 153% of average.



UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

STREAMFLOW FORECASTS

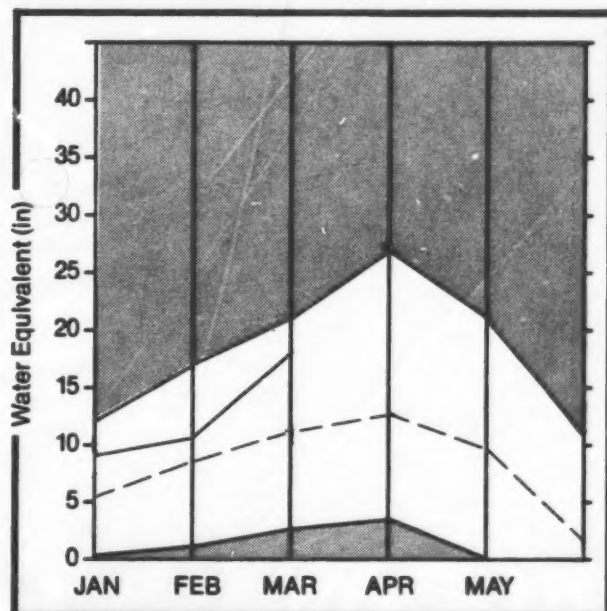
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
PROVO near Hailstone	APR-JUL	166.0	166.0	100	180	127	2300			
PROVO below Deer Creek Dam	APR-JUL	128.0	200.0	149	196	141				
AMERICAN FORK near American Fk.	APR-JUL	91.0	50.0	141	181	148	550			
HOBBLE CREEK near Springville	APR-JUL	18.7	20.0	107						
STRAWBERRY RESERVOIR inflow	APR-JUL	72.0	50.0	144	188	143				
PAYSON CREEK near Payson	APR-JUL	6.2	5.0	140						
UTAH LAKE inflow	APR-JUL	230.0	450.0	196	217	162				
LITTLE COTTONWOOD CRK near SLC	APR-JUL	96.0	50.0	130	153	124				
BIG COTTONWOOD CRK near SLC	APR-JUL	37.0	50.0	135	154	124				
PARLEY'S CREEK near SLC	APR-JUL	140.0	25.0	106	189	135				
HILL CREEK near SLC	APR-JUL	5.0	10.0	200	207	155				
EMIGRATION CREEK near SLC	APR-JUL	9.7	7.0	100						
CITY CREEK near SLC	APR-JUL	7.7	15.0	190	182	143				
SETTLEMENT CREEK near Tooele	APR-JUL	2.3	2.2	95	174	43				
SOUTH WILLOW CREEK near Grantsville	APR-JUL	0.5	0.7	90	133	33				
VERNON CREEK near Vernon	APR-JUN	0.00	0.01	100	167	53				

RESERVOIR STORAGE		(1000AF)		WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVERAGE
DEER CREEK	149.7	179.3	113.7	72.3	PROVO RIVER & UTAH LAKE	10	122	100
GRANTSVILLE	3.3	2.3	—	—	PROVO RIVER	5	100	100
SETTLEMENT CREEK	1.0	0.0	0.0	0.0	JORDAN RIVER & GREAT SALT	5	100	100
STRAWBERRY-ENLARGED	951.4	354.7	244.0	—	TOOELE VALLEY WATERSHEDS	4	100	100
UTAH LAKE	883.9	1008.7	1188.0	107.4	UTAH LAKE, JORDAN RIVER &	19	100	100
VERNON CREEK	0.6	0.5	0.0	0.0				

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Uintah Basin & Dagget SCD's

Mountain snowpack* (inches)



*Based on selected stations

Maximum:



Average



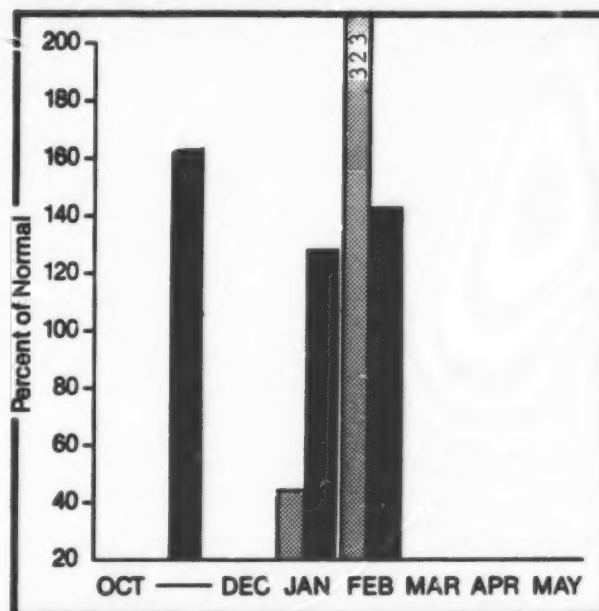
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

Heavy February precipitation increased the snowpack on all drainages. Several south slope courses set new records. Snowpack ranges from 112% on Sheep Creek to 186% of the March 1 average on the Lakefork and Yellowstone drainage. Streamflow forecasts are for much above average water supplies ranging from 126 to 214% of average. February precipitation at mountain stations was 323% of normal bringing the total for the water year to 142% of average. Reservoir storage is 86% of capacity and 134% of average.

UINTAH BASIN & DAGGET SCD'S

STREAMFLOW FORECASTS

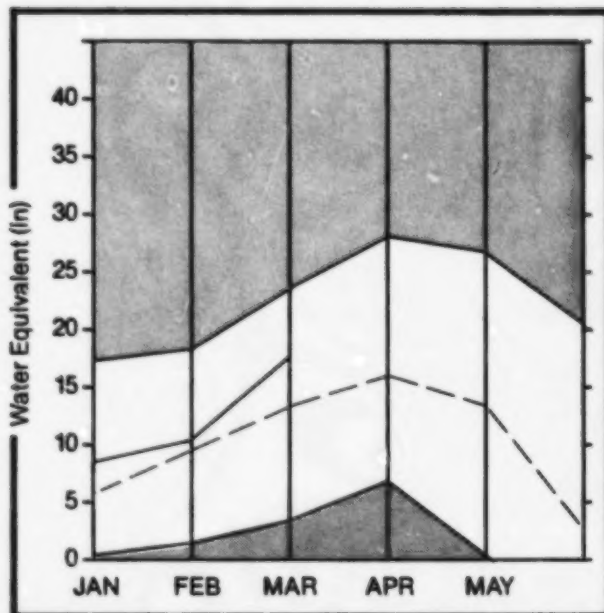
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
DUCHESNE RIVER near Tabiona	APR-JUL	163.0	160.0	132	169	133				
DUCHESNE RIVER near Duchesne	APR-JUL	189.0	200.0	153	174	133				
STRAWBERRY RIVER at Duchesne	APR-JUL	56.0	100.0	172	193	152	750			
ROCK CREEK near Mountain Home	APR-JUL	79.0	100.0	143	169	127	2000			
CURRENT CREEK near Fruitland	APR-JUL	20.0	22.0	160	180	140				
LAKEFORK RIVER near Mountain Home	APR-JUL	70.0	95.0	135	161	114				
YELLOWSTONE RIVER near Altonah	APR-JUL	65.0	90.0	130	174	103				
DUCHESNE near Mvton	APR-JUL	203.0	440.0	214	246	176				
WHITE ROCKS RIVER near Whiterocks	APR-JUL	36.0	25.0	146	188	105				
UINTAH RIVER near Neola	APR-JUL	86.0	120.0	151	192	110				
DUCHESNE near Randlett	APR-JUL	257.0	325.0	204	275	133				
WEST FORK DUCHESNE RIVER near Hanna	APR-JUL	20.0	42.0	161	181	138				
HENRY'S FORK near Manila	APR-SEP	40.0	42.5	130	169	100				
BLACK'S FORK near Millburne	APR-JUL	70.0	100.0	133	169	102				
FLAMING GORGE RESERVOIR inflow	APR-JUL	1240.0	1900.0	152	178	129				
ASHLEY CREEK near Vernal	APR-JUL	31.0	44.5	126	151	106				

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	THIS YEAR	LAST YEAR	AVERAGE	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE	
FLAMING GORGE	3749.0	2726.0	2000.0	—	UPPER GREEN RIVER in UTAH	8	122	122
MOON LAKE	35.8	22.0	20.0	16.0	ASHLEY CREEK	2	120	120
RED FLEET	26.0	20.7	20.0	—	BLACK'S FORK RIVER	3	120	120
STEINAKER	33.3	20.0	20.0	20.0	SHEEP CREEK	2	117	117
STARVATION	165.3	147.0	120.0	132.0	DUCHESNE RIVER	11	129	129
STRAWBERRY-ENLARGED	951.4	200.7	144.0	—	LAKE FORK-YELLOWSTONE CRE	3	106	106
					STRAWBERRY RIVER	4	120	120
					UINTAH-WHITEROCKS RIVERS	2	149	149
					UINTAH BASIN & DAGGET SCD	20	100	100

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Carbon, Emery, Wayne, Grand, and San Juan Co.

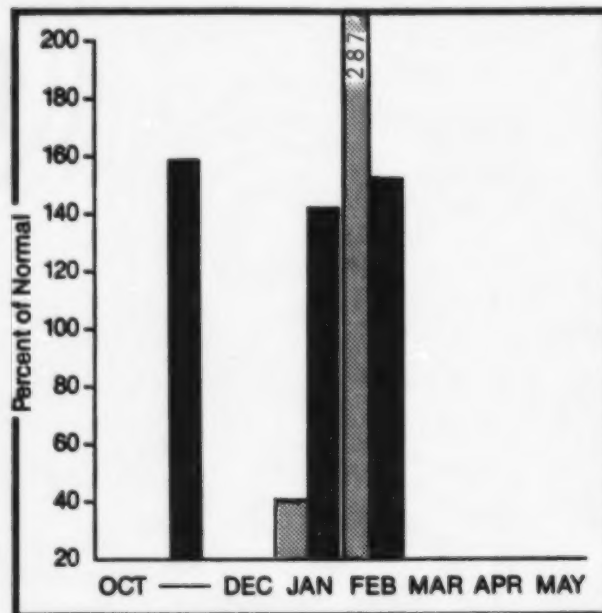
Mountain snowpack* (inches)



*Based on selected stations

Maximum Average Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Southeastern Utah snowpack ranges from record levels in the north to below average in the south for individual snow courses. Basin averages range from 139% on the Price River down to 95% for the Blue Mountains. Forecasts for April-July streamflow are for above to much above average flows ranging from 109 to 155% of average for the forecast period. Precipitation at mountain stations was 287% of the February norm bringing the water year accumulation to 152% of average. Reservoir storage is 155% of average.

For more information contact your local Soil Conservation Service office:
Price Field Office 301-637-0041

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
GOOSEBERRY CREEK near Scofield	APR-JUL	186.7	13.5	126	159	93				
SCOFIELD RESERVOIR inflow	APR-JUL	261.0	58.0	144	171	124				
PRICE near Heiner	APR-JUL	43.0	98.0	144						
HUNTINGTON CREEK near Huntington	APR-JUL	97.0	70.0	142	171	124				
COTTONWOOD CREEK near Orangeville	APR-JUL	47.0	48.0	127	162	94				
FERRON CREEK near Ferron	APR-JUL	27.0	48.0	129	168	92	600			
MUDDY CREEK near Emery	APR-JUL	18.5	24.0	129	168	92	200			
COLORADO near Cisco, UT	APR-JUL	3046.0	4390.0	142	183	112				
GREEN near Green Rv., UT	APR-JUL	3054.0	4700.0	155	183	129				
MILL CREEK near Moab	APR-JUL	5.5	4.3	118	164	73				
NAVAJO RESERVOIR inflow	APR-JUL	739.0	800.0	114	158	82				
SAN JUAN near Bluff, UT	APR-JUL	175.0	1480.0	115	163	77				
SEVEN MILE CREEK near Fish Lake	APR-JUL	4.3	7.1	109	154	77				

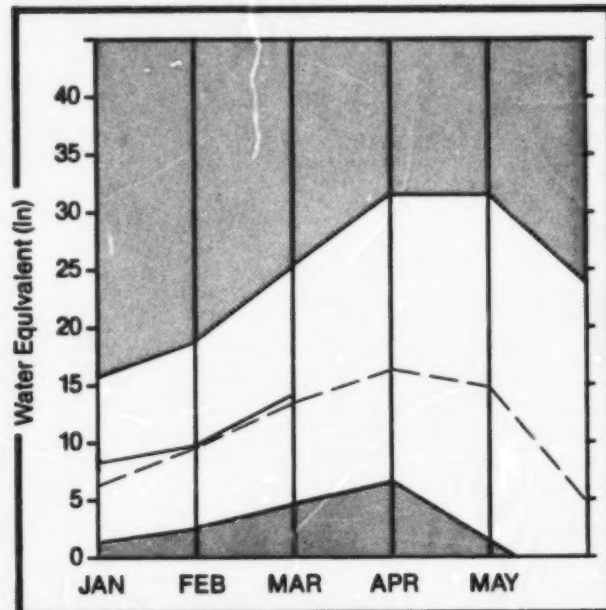
RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
HUNTINGTON NORTH	3.9	2.9	4.4	3.5	PRICE RIVER	3	139	127
JOE'S VALLEY	54.6	38.3	49.3	44.0	SAN RAFAEL RIVER	7	133	133
KEN'S LAKE	2.3	1.3	3.6	2.5	MUDDY RIVER	2	144	124
MILL SITE	16.7	9.2	11.0	10.1	FREMONT RIVER	3	118	115
NAVAJO	1696.0	1196.0	1372.0	1284.0	LASAL MOUNTAINS	2	140	105
SCOFIELD	65.8	49.3	51.0	50.2	BLUE MOUNTAINS	2	92	95
					CARBON, EMERY, WAYNE, GRA	20	127	128

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

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Sevier & Beaver River Basins

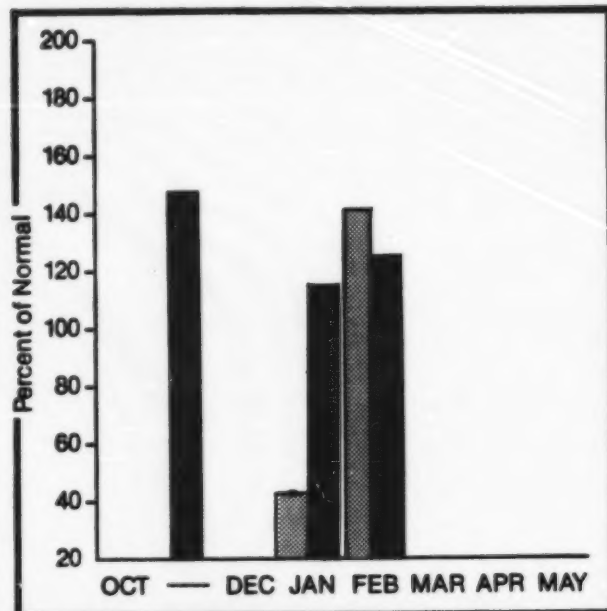
Mountain snowpack* (inches)



*Based on selected stations

Maximum Average Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Sevier River snowpack ranges from 86% of the March 1 average on the South Fork to 104% on the Lower Sevier. Beaver River snowpack is 146% of average. Streamflow forecasts, with the exception of Antimony Creek, remain above to much above average. Mountain precipitation, although of a lesser magnitude than received in the north, was 142% of the February average with water year accumulation of 125% of the October-February average. Reservoir storage is 96% of useable capacity and 177% of average.

For more information contact your local Soil Conservation Service office:
 Richfield Field Office 801-896-6261
 Fillmore Field Office 801-743-6655



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SEVIER & BEAVER RIVER BASINS

STREAMFLOW FORECASTS

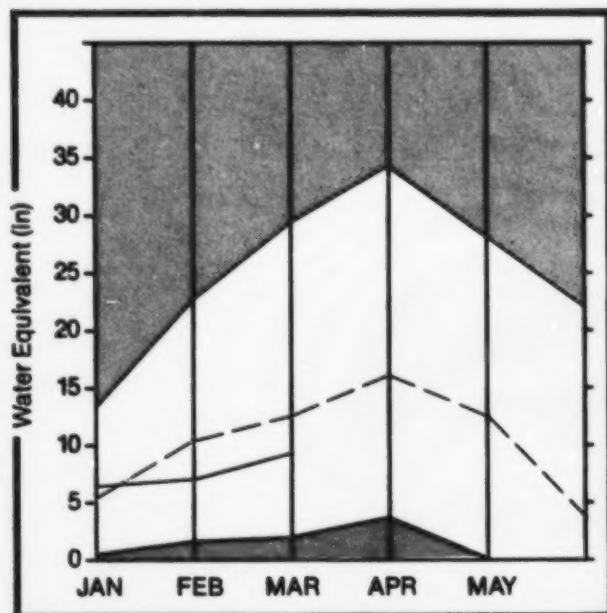
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	PEAS. MAX. (% AVE.)	PEAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SEVIER at Hatch	APR-JUL	48.0	50.0	100	146	77	500			
SEVIER near Circleville	APR-JUL	50.0	50.0	100						
SEVIER near Kingston	APR-JUL	29.0	30.0	100	190	52	500			
ANTHONY CREEK near Anthony	APR-JUL	11.0	12.0	100						
E F SEVIER near Kingston	APR-JUL	18.0	19.0	100	180	79				
SEVIER b/w Piute Dam	APR-JUL	40.0	40.0	100	170	56				
CLE'R CREEK near Sevier	APR-JUL	18.0	19.0	100			300			
SIGURD to GUNNISON	APR-JUL	20.0	20.0	100	438	262				
KINGSTON to VERMILLION DAM	APR-JUL	20.0	20.0	100						
VERMILLION DAM to GUNNISON	APR-JUL	20.0	20.0	100						
SALINA CREEK at Salina	APR-JUL	11.0	12.0	100			600			
SEVIER nr Gunnison	APR-JUL	50.0	50.0	100						
CHALK CREEK near Fillmore	APR-JUL	14.0	15.0	100	146	73				
CHICKEN CREEK near Levan	APR-JUL	1.0	1.0	100	171	86				
OAK CREEK near Oak City	APR-JUL	1.0	1.0	100	188	56				
EPHRAIM CREEK near Ephraim	APR-JUL	14.0	15.0	100						
PLEASANT CREEK near Pleasant	APR-JUL	9.0	10.0	100						
SALT CREEK near Nephi	APR-JUL	13.0	13.0	100	178	22				
BEAVER RIVER near Beaver	APR-JUL	29.0	30.0	100	226	130	475			
NORTH CREEK near Beaver (combined w/)	APR-JUL	14.0	15.0	100	233	75				
MINERSVILLE RESERVOIR inflow	APR-JUN	8.0	9.0	100	303	202				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE
GUNNISON	18.2	18.0	18.0	18.0	UPPER SEVIER RIVER (south)	11	
MINERSVILLE (R&VFD)	26.0	26.0	26.0	26.0	EAST FORK SEVIER RIVER	4	
OTTER CREEK	52.5	52.0	52.0	52.0	SOUTH FORK SEVIER RIVER	7	
PIUTE	71.8	71.0	71.0	71.0	LOWER SEVIER RIVER (inclu)	12	
SEVIER BRIDGE	236.0	236.0	236.0	236.0	BEAVER RIVER	3	
PANDUITCH LAKE	22.3	22.0	22.0	22.0	SEVIER & BEAVER RIVER BAS	26	

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

E. Garfield, Kane, Washington, & Iron Co.

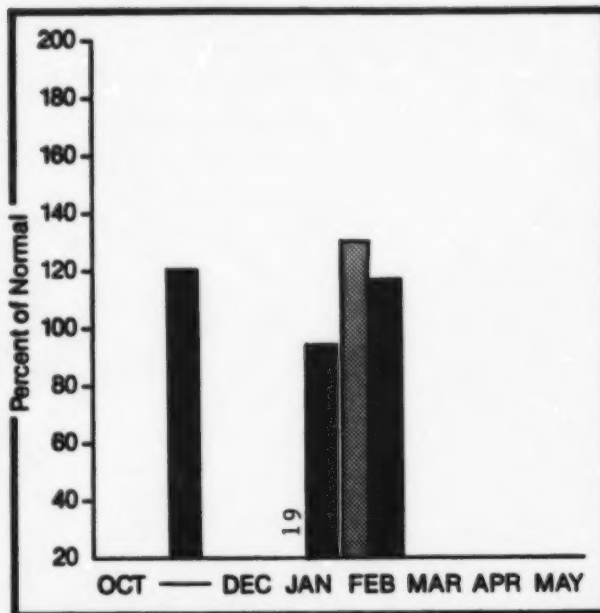
Mountain snowpack* (inches)



*Based on selected stations

Maximum  Average 
Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Virgin River snowpack is 83% of average for March 1. Enterprise-New Harmony snowpack is only 30% of what has normally accumulated by March 1 due to above average temperature and early melt. Streamflow is forecast below average on the Virgin and Santa Clara, above average on Coal Creek, and much above average for Lake Powell Inflow. Mountain precipitation was 130% of average for February with water year accumulation of 117%. Reservoir storage is only half of capacity with most reservoirs not expected to fill.

For more information, contact your local Soil Conservation Service office.
Circle 11 on Reader Service Card

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E. GARFIELD, KANE, WASHINGTON, & IRON Co.

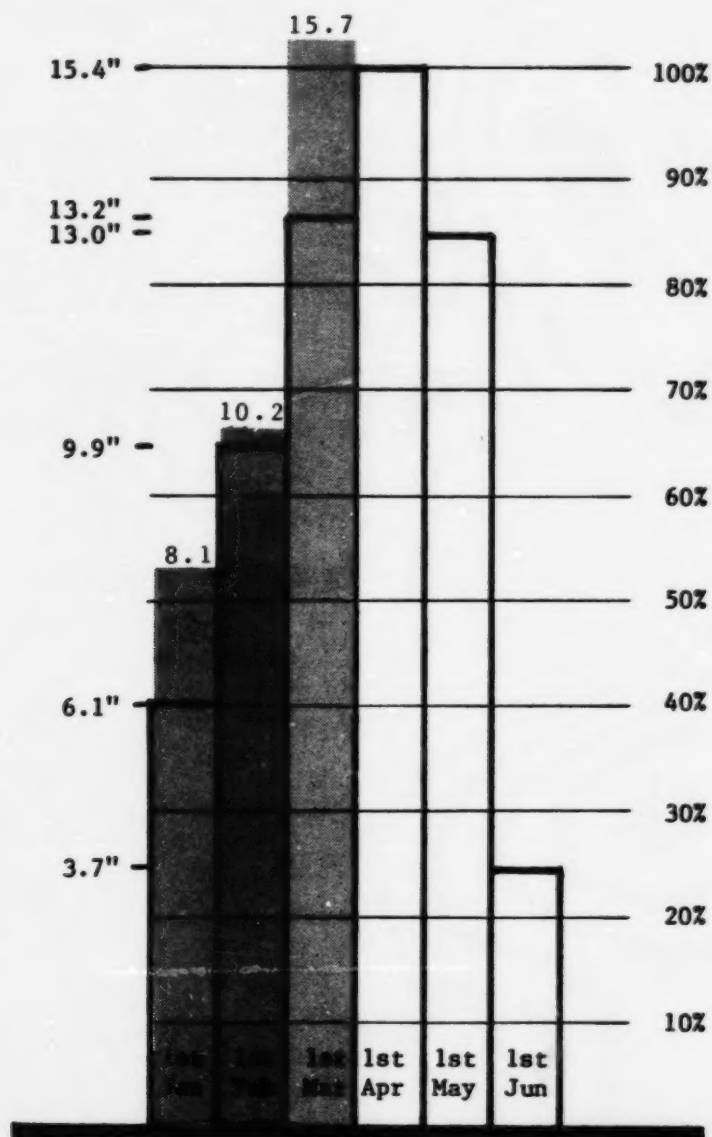
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
VIRGIN near Hurricane	APR-JUN	88.0	88.0	72	110	34	600			
SANTA CLARA near Pine Valley	APR-JUN	8.0	8.0	88						
COAL CREEK near Cedar City	APR-JUL	180.0	180.0	100	152	92	350			
LAKE POWELL inflow	APR-JUL	7400.0	7400.0	100	183	116				

RESERVOIR STORAGE (1000AF)		WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVE.	WATERSHED
BLUE MESA	830.0	796.0	830.0	796.0	VIRGIN RIVER
LAKE POWELL	25002.0	23946.0	23946.0	—	PARDMAN
					ENTERPRISE TO NEW HARMONY
					COAL CREEK
					ESCALANTE RIVER
					E. GARFIELD, KANE, WASHIN

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Utah Snowpack Progress



Statewide

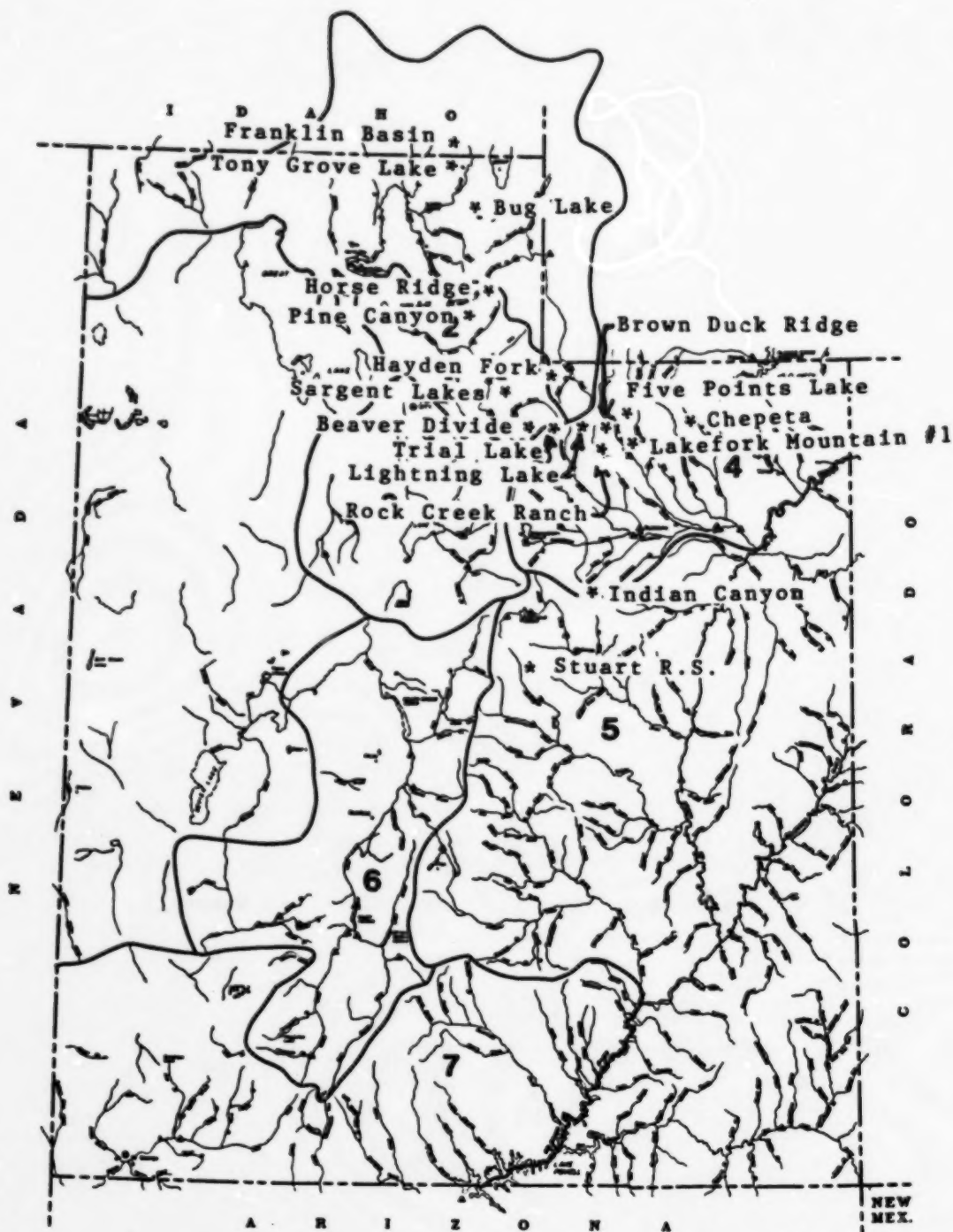
Snow water equivalent in inches is compared to maximum seasonal amounts at 100 %.

Monthly S.W.E. averages for each course in the state are accumulated and averaged by month

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*=NEW RECORD MARCH 1 SNOW WATER EQUIVALENT



The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

State

Utah State University
Utah State Department of Natural Resources
Division of Wildlife Resources
Division of Water Resources
Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

Federal

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

Municipality

Hanti
Salt Lake City

Public

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Central Utah Conservancy District
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association
Weber River Water Users Association
Weber Basin Conservancy District

Other organizations and individuals furnish
information for the snow survey reports.
Their cooperation is gratefully acknowledged.

All programs and services of U.S. Dept.
of Agriculture are available to everyone
without regard to race, creed, color, sex,
age, handicap, or national origin.